

## CLAIMS

1. A polymerization initiator composition for a polymerizable monomer constituting an adhesive composition  
5 for dental use, comprising:

100 parts by weight of (A) at least one organic boron compound selected from the group consisting of a trialkyl boron, alkoxyalkyl boron, dialkyl borane, monocyclic or bicyclic compound having a boron atom as a hetero atom and  
10 partially oxidated trialkyl boron;

5 to 40 parts by weight of (B) an aprotic solvent having a boiling point of 50 to 120°C; and

0.2 to 5 parts by weight of (C) an alcohol having a boiling point of 60 to 180°C.

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2. The polymerization initiator composition according to claim 1, wherein the aprotic solvent (B) is at least one solvent selected from the group consisting of an alkane, ketone, ether and ester.

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3. The polymerization initiator composition according to claim 1 or 2, wherein the alcohol (C) is an alcohol having 4 or less carbon atoms.

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4. The polymerization initiator composition according to any one of claims 1 to 3, wherein the organic boron compound (A) is partially oxidated tributyl boron, the aprotic solvent (B) is hexane, and the alcohol (C) is ethanol.

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5. An adhesive composition for dental or surgical use, comprising 30 to 100 parts by weight of (a) a polymerizable monomer, 0 to 70 parts by weight of (b) a (meth)acrylate polymer, and 1 to 20 parts by weight of (c) the polymerization initiator composition of any one of claims 1 to 4, the total

of the polymerizable monomer (a) and the (meth)acrylate polymer (b) being 100 parts by weight.

6. The adhesive composition for dental or surgical use  
5 according to claim 5, wherein the polymerizable monomer (a) is a (meth)acrylate or a combination of a (meth)acrylate and a polymerizable monomer having an acid group.

7. The adhesive composition for dental or surgical use  
10 according to claim 5 or 6, wherein the (meth)acrylate polymer (b) is at least one polymer selected from the group consisting of a homopolymer of an alkyl (meth)acrylate, a copolymer of alkyl (meth)acrylates, a copolymer of an alkyl (meth)acrylate and another polymerizable monomer, a  
15 copolymer of an alkyl (meth)acrylate and an alkylene di(meth)acrylate, and a copolymer of an alkyl (meth)acrylate and a diene monomer.